

ABSTRACT

A telemetry system for bi-directional communication of data between a well point and a terminal unit situated on a surface, which can be used inside drilling or production strings. The system includes data transmission and optional reception devices. An active vehicle, which can be equipped with plural automation levels, ranging from purely tele-operated to completely autonomous, is provided for unwinding and pulling a connection line, capable of moving inside a drilling or production string, or a passive vehicle, moved by a deploying cable and a suitable winding/unwinding device, in particular a winch. A connection line, containing electric conductors and/or one or more optical fibers of the transmission and optional reception devices is provided between a well point and its corresponding point situated inside the vehicle or on the surface.